

Your Balance Sheet

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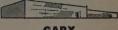
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statistics of . . .

Chicago Business

- Introduction to the Transfer and I the Transfer	// June, 1954		
Building permits	974		
Cost	\$ 16,919,300	\$ 29,653,150	\$ 21,342,9
Contracts awarded on building projects	3 4 3 1934		
Cook. Co.	2.751	2,849	2.0
Cook, Co.	\$ 59,294,000	\$ 78,147,000	
(F. W. Dodge Corp.)			
Real estate transfers	8,910	7,509	7,8
Consideration	_\$ 6,779,820		\$ 7,051,0
		φ 1,020,022	4 .,002,00
Bank clearings	\$ 4,113,920,646	\$ 3,927,206,515	\$ 4,122,604,6
Bank debits to individual accounts: 7th Federal Reserve District	609 894 000 000	\$22,025,000,000	\$23,702,000,0
Chicago only	\$12,072,234,000	\$11,565,255,000	\$12,097,194,0
Chicago only(Federal Reserve Board)		911,000,400,000	Q Importation
Midwest Stock Exchange transactions:		7 100 000	- 00× 0
Number of shares traded	1,561,495		1,095,2
Market value of shares traded	_\$ 54,610,651	\$ 50,546,898	\$ 38,276,3
Railway express shipments, Chicago area	850,157	799,655	1,001,7
Air express shipments, Chicago area	59,474	55,556	59,5
L.C.L. merchandise cars	17,603	16,876	18,4
Electric power production, kwh	1,421,770,000	1,338,293,000	1,385,904,0
Industrial gas sales, therms	_ 12,723,316	12,501,393	14,350,2
Revenue passengers carried by Chicago			
Transit Authority lines:			
Surface division	44,523,614		
Rapid transit division	9,062,460	8,921,990	
Postal Receipts	_\$ 11,625,234	\$ 11,279,794	\$ 10,945,2
Air passengers:			
Arrivals	352,725	328,370	310,8
Departures		336,239	322,2
Consumers' Price Index (1947-49=100)	117.3	117.3	111
Receipts of salable livestock	382,302	378,751	424,1
Unemployment compensation claimants,			
Cook & DuPage counties	97,721	96,467	28,9

September, 1954, Tax Calendar.

Date Due

Ta

Second installment of 1953 Real Estate taxes becomes delinquent on this date and subject to penalty of 1% per month thereafter

15 If total O.A.B. taxes (employer and employe) plus income tax withheld in previous month exceeds \$100, pay amount to

15 Illinois Retailers' Occupation Tax return and payment for month of August

15 Third installment (5%) of 1953 Federal Income Tax by Corporations

Payment of one-quarter of 1954 estimated tax found due March 15, or one-third of the balance of 1954 estimated tax found due June 15. (Those required to file declaration for first time, or making revised declaration, pay one-half of the balance of 1954 estimated tax) Returnable to

County Collector

Authorized Deposit
Director of Rever

(Illinois)

District Director of ternal Revenue

District Director of ternal Revenue

COMMERCE

Magazine

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August. 1954

Volume 51

Number 7

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lan Sturdy, Editor • Gordon Rice, Advertising Manager • Gordon Ewen, Associate Editor

Published monthly by The Chicago Association of Commerce and Industry, with offices at James and North Cook Streets, Barrington, Ill., and 1 North LaSalle Street, Chicago 2, Ill. Subscription rates: domestic \$3.50 a year; three years \$7.50; foreign \$4.50 a year; single copies 35 cents. Reentered as second class matter June 2, 1948, at the Post Office at Barrington, Ill., under the act of March 3, 1879, Copyright 1954, by the Chicago Association of Commerce and Industry. Reprint permission on request. Executive and Editorial Offices: 1 North LaSalle Str., Chicago, Telephone Franklin 2-7710. Night Telephone: Editorial, Franklin 2-7717; Advertising, Franklin 2-7711. Neither Commerce nor The Chicago Association of Commerce and Industry sponsors or is committed to the views expressed by authors. Cover design copyrighted.

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in this

Balance sheets aren't getting the attention they deserve, writes Roy A. Foulke of Dun and Bradstreet. They're chock-full of information vital to the future of your business if you'll take the tropy.

Roy A. Foulke of Dun and Bradstreet. They're chock-full of information vital to the future of your business, if you'll take the trouble to look beneath the surface. Foulke's article (page 13) tells what to look for in six major balance sheet items.

There's a rugged new type of rubber today. Heat it to 500 degrees and it won't become gummy. Freeze it at 120 below and it won't become brittle. The secret is contained in silicones, a man-made chemical whose future is virtually unlimited. Phil Hirsch's article starts on page 15.

It's one of the least publicized federal problems, but Department of Interior officials are concerned about the rate at which the reservoirs behind the nation's great dams are filling up with silt. If this is allowed to continue over an extended period, the water storage capacity of some of the biggest will be lessened to point of uselessness. John L. Kent (page 16) explains how the government is trying to meet the problem.

Besides being home for 160 million humans, the United States has several other impressive populations. These include 26.7 million cats, 22.6 million dogs, 9.4 million parakeets, and 5.9 million canaries. A hundred years ago our goldfish population was nil; now it is between 30 and 50 million. All of which, as Charles Keysor's article (page 18) points out, means a booming U. S. pet industry.

Although it lacks the big stars and glamor of Hollywood, Chicago still ranks as a film capital and one of the biggest at that. It has the biggest educational and industrial film producers and the nation's biggest equipment manufacturers. Even cinemascope films can be produced here, according to Cyrus Lloyd's article that starts on page 20.

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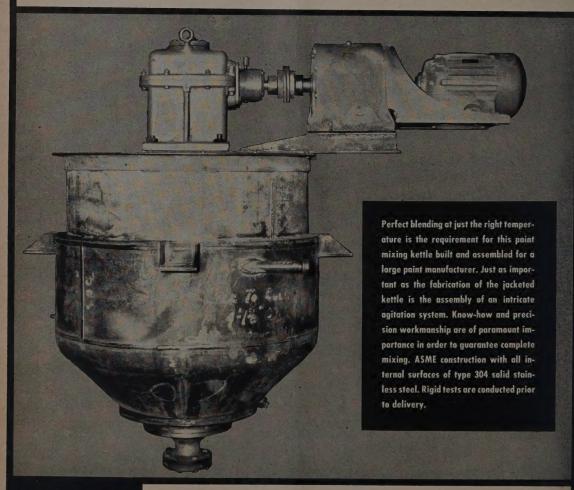
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The Editor's Page

Grass Roots Redevelopment

The \$26 million Hyde Park housing project—already approved by the city council and awaiting approval at State and Federal levels—is not an ordinary slum clearance effort.

The plan would have the Chicago Land Clearance Commission acquire two tracts totaling 50 acres, demolish 209 dilapidated buildings of Victorian vintage, and resell the land to private developers who would build modern housing units and a new shopping center.

What differentiates the project from other slum clearance efforts is that the blight lies in the center of an otherwise desirable area. In the words of the South East Chicago Commission, a citizens group that is the moving force behind the plan, it offers the chance "to use slum clearance not only as a tool for removing blight, but also as a device for enhancing and reinforcing a stable surrounding area."

The tract boundaries were drawn irregularly to take in those areas whose need for renovation was the most desperate. In one tract, 95.6 per cent of the buildings are classified as "dilapidated," and in the other the dilapidation rate is 98.3 per cent.

About \$6 million in tax money would be required to purchase and clear the land. Private investors would be expected to put around \$20 million into the area's redevelopment.

Only in recent years has it been recognized that the prevention of future slums, through conservation of the best features of aging neighborhoods, is fully as important as the eradication of existing slums.

The Hyde Park project in a single blow strikes at both current and future slums. It is a bold conception and deserves strong support from civic-minded Chicagoans. One of the most encouraging aspects is that its progress to date is the result of the initiative of citizens and organizations within the affected area itself.

As the president of the Chicago Association of Commerce and Industry – Arthur T. Leonard – says, "It may well become a model for similar urban renewal action in other sections of the city."

Loyalty Can Be Divided

Industrial workers can be strongly loyal both to their unions and the employers for whom they work. This view, which probably will startle both militant unionists and non-unionists, is advanced by Dr. Lois R. Dean of the New York State School of Industrial and Labor Relations at Cornell University as a result of studies of the problem of dual loyalty at three New York factories.

In an article on union activity and dual loyalty written for the "Industrial and Labor Relations Review," published by the Cornell School, Dr. Dean challenges the "common sense" opinion that a factory worker who supports his union is likely to be a malcontent or "sore-head," whose allegiance to the union springs from dissatisfaction with company policies and practices. "Evidence is accumulating," says Dr. Dean, "to suggest that a union's main support may come from the workers who are satisfied, not dissatisfied, with the treatment they receive from management."

Dr. Dean found, in fact, that the worker's attitude toward both his union and his management may be largely the result of his "set of mind." Those chronically disposed to be dissatisfied are likely to become displeased with their leaders in the union as well as among management. Those appreciative of good leadership will acknowledge merit in both camps, where present, and give a proper loyalty to both.

These general tendencies can be sharply qualified by discordant labor-management relations, Dr. Dean finds. Where management and the union are in continuous and open conflict, dual loyalty may exist in the plant as a whole; but the union meetings may attract the workers who do not see union and management as having compatible goals, and these union members may dominate union activities. Where industrial relations are peaceful, however, or where the union-management relationship improves, the data suggest that control of the union may very well shift so that the active unionists will be those who look with favor on both management and the union.

Dr. Dean's findings are a testimony to the levelheadedness of the great majority of American workers, as well as an indictment of the oversimplified idea, that workers can have but one loyalty over which union and company must continually fight.

Alan Sturly



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Here...There... and Everywhere

- New Army Mule While it's not expected to become the new West Point mascot, a "mechanical mule" has been developed for the Army by Willys Motors and the Detroit Arsenal. Designed to transport weapons, ammunition, and food from the nearest roads over rough ground up to front-line positions, the 1954model mule looks like a flat-bed truck equipped with an engine underneath in the rear and a driver's seat and controls extending out slightly from the front. The chassis is only 27 inches high and thus presents a poor target for snipers. Its 100-inch length and 750-pound weight make it easy to transport; it can even be dropped by parachute. Probably the most novel feature is that under combat conditions the driver can operate it while walking or crawling at the side or rear. He merely adjusts the steering wheel and column to swing close to the ground. Then he sets the speed as low as one mile an hour and walks or crawls behind.
- More Crime Than Fire The increase in crime has reached a point where the average businessman can expect to suffer a crime loss before he suffers a fire loss, reports the burglary insurance department of the Lumbermens Mutual Casualty Company of Chicago. In the past five years reported store and office burglaries have increased 50 per cent and robberies have risen 90 per cent.
- Engineers as Husbands Engineers at least those who attended Illinois Institute of Technology must be model husbands. Their divorce rate is almost zero against the national experience that one in every four marriages ends in divorce. Tech queried fifth-year classes beginning with 1929, found no divorces in the classes of 1939, 1944, and 1949, one

- in the class of '29, and a two per cent rate for the class of '34. Earl Kubicek, director of alumni relations, says the low divorce rate may be due to the relatively high level of security enjoyed by engineers or could it be that they are content to let their wives win all the arguments?
- Domesticated A c i d Hydro chloric acid has been domesticated and its corrosive action is available to take the ring out of your bathtul and clean your kitchen sink. Her cules Powder Company of Wilming ton, Del., says that newly developed "inhibitors"—chemicals added to loc concentrations of the acid—protec metal surfaces while permitting the acid to remove dirt, rust, scale, and discoloration.
- Bank Contest The recent expe rience of the Bank of the Manhatta Company indicates that shedding the cloak of conservatism can b profitable. Bank of Manhattan's re cent new business contest for en ployes was the first of its kind amon major New York banks. In a three month period it brought it 42,19 new accounts totaling \$28,693,00 The increase over the same perio in contestless previous years amount ed to 350 per cent. Top prize was 10-day trip to Bermuda for two, an other prizes covered every concei able form of merchandise from dis rags to pianos.
- Keeps Paper Moving Papwork can't pile up at Westinghou Electric Corporation's new war house in East Pittsburgh, Pa. A coveyor belt has been installed to kee it moving automatically. The ide is an adaption of an old idea—tl 19th century drygoods store ove head basket. Westinghouse has tw

(Continued on page 35)

Only STEEL can do so many jobs so well



Hurricane Damage? No, this demolition job is being done on purpose . . . to make way for some new, modern buildings in a large eastern city. But whether buildings are going up, or being torn down, most of the "burden" is carried by the wire rope with which the big cranes, hoists and diggers are strung. It has to be strong, tough, reliable . . . and it is, when it's USS Tiger Brand Wire Rope,

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Trends... in Finance and Business



• Coffee Break Survey—The company that doesn't allow office help to take rest periods or coffee breaks is becoming increasingly rare on the Chicago scene. Of 170 firms surveyed by the Office Management Association of Chicago, 128 have regularly scheduled breaks in the work routine and 23 allow employes to take time off informally. This leaves only 19 firms that fail to turn 'em loose.

Seven companies go to the extreme of serving coffee at the employe's desk. Two-thirds allow 15 minute rest periods twice a day, and 10 per cent grant 20-minute periods.

Despite their general tendency to grant rest periods, Chicago employers are reported as being far from unanimous on the merits of the practice. Some said it improved employe morale; others said the benefits were nil.

Meanwhile, Mills Industries of Chicago has come up with a new 500-cup, coin-operated coffee machine that has the ultimate personal touch: control levers that permit the drinker to select the exact amount of cream and sugar desired and to control strength by adding more or less hot water.

• Better Than Pittsburgh — Steel plants in the Chicago Metropolitan Area aren't celebrating their production record for the first six months of 1954. They turned out 8,-934,900 net tons, a decrease of 15 per cent from the same period last year.

But compared with Pittsburgh, the Chicago drop looks modest. Plants in metropolitan Pittsburgh produced 8,934,900 tons in the first half, off 25 per cent from last year. Steelmen attribute Chicago's relatively better showing to the fact that the Midwest is a steel deficit area—more steel is consumed here than is

produced—and that in periods when national demand slackens Chicago's strategic location becomes a greater factor.

• Top Job Openings—Latest straw in the business wind is the "Executrend" survey, creation of Heidrick and Struggles, a Chicago firm specializing in finding executives for business and industry. Executrend is a count of the number of high ranking positions offered each week through display (not classified) advertisements in the weekend business and financial sections of major metropolitan newspapers.

The average number of "top brass" jobs open averaged 233 a week during the first half of 1954. The fact that the second quarter showed a drop of only 14 per cent from the normally peak first quarter is interpreted meaning that general business sentiment is on the rise.

Most of the current bright opportunities are in the engineering and sales fields, says Heidrick and Struggles. The demand for executives in marketing, selling, and finance is off slightly, but the need for personnel administrators is up. All categories except manufacturing rose in June, which is often a month of downturn in executive openings.

• Big Year for Municipals — The municipal bond business is in the middle of what appears to be its biggest year yet. Halsey, Stuart and Company's recent survey reports that first half sales nationally totaled a record \$3.7 billion—larger in fact than sales for the full year 1951 or any prior year. The unsold supply in the hands of bond houses at June 30, including some bonds carried over from 1953, is reported

(Continued on page 37)

AUGUST, 1954

GAS at work for Chicago's Industry



Freshly enameled parts emerging from gas-fired drying oven on their way to the assembly area.

One of the many new postwar plants erected on Chicago's southwest side is that of the Marvel Metal Products. Manufacturers of steel kitchen cabinets and wardrobes, this company enjoys a coastto-coast distribution.

Hundreds of cabinets and wardrobes are fabricated at this plant each day. It takes 20 minutes for the steel parts to complete the enameling cycle and gas has proved to be the ideal fuel for baking on the enamel finish.



Don't Ever Neglect Your Balance Sheet

By ROY A. FOULKE

It's brimming with the information you need to set policies that will prevent future financial trouble

ABOUT 25 years ago the balance sheet began to take a back seat to the income account as the most important financial statement. Under this trend, a fairly close estimate of periodic earnings has come to be considered more important than the nature and size of the assets and liabilities of a business.

Despite this continuing "de-emphasis," there are two basic reasons why the balance sheet has unique importance to the executive who is interested in determining sound financial policies:

1. I have yet to run across a businessman who did not have a fairly intimate knowledge of his income account.

2. Knowledge of the healthy distribution of assets and liabilities in a balance sheet often prevents a financial problem from arising and then getting into the income account sometime in the future.

Six items in the balance sheet can become too large for the health, wealth and prosperity of an industrial or commercial business. These are: (1) receivables, (2) inventory, (3) fixed assets, (4) current liabilities, (5) funded liabilities, and (6) the most ubiquitous of all items which centers around investments in and advances to subsidiaries and affiliated companies, and advances to officers, directors and employes. There is one item in the balance sheet which can become too small for the health of a business. That item is the net working capital, the difference between the current assets and the current liabilities.

Items To Watch

Here are some things to keep in mind about the first six balance sheet items:

Receivables — Many failures and voluntary liquidations each year are brought about by heavy losses on receivables. Beginning last summer, we have entered a period of normal everyday, keen competition that will separate the men from the boys. We have had fifteen years of hot-house economy and almost constant inflation. Bad debt losses have been at a minimum over these years. This fact is widely recognized by those whose business experience runs back into the Twenties and the Thirties.

Under a sound financial policy no substantial credit should ever be ex-

tended to questionable risks. Every business must sell questionable risks. It is impossible to operate today and not do so. But sales to this category of accounts should be in small or moderate amounts and be spread over quite a number of customers. We are now entering a period of our economy where losses of this nature will have a greater effect on the wellbeing of businesses than anytime over the past fifteen years.

Inventories – Over the past three decades quite a number of studies have appeared about business failures. Several of those studies have been issued by Dun and Bradstreet, and I have made some personally. I have read carefully all of the studies that have appeared over this period of time, and about the only information of value which I can pass on is that there seems to be an inverse relationship between wholesale prices and business failures. As prices go up failures tend to go down, and as prices go down failures tend to go up.

There would seem to be a logical explanation for this inverse relationship. There are 2,500,000 active industrial and commercial enterprises in the United States. Several hundred thousand are marginal enterprises just balancing themselves on the brink of existence. When the prices of the raw material they re-

The author is vice president of Dun and Bradstreet, Inc. The material in this article was digested from his speech before a recent meeting of the National Industrial Conference Board.

[&]quot;There are 4,200,000 businesses of all kinds and descriptions in the United

Fred G. Korth photo

quire or of the finished products which they handle move up, it is possible to sell their products at a slightly higher price than had been anticipated and in so doing obtain an unlooked for inventory profit. That keeps many concerns in the land of living. Conversely, when prices drop it is often necessary to reduce prices below what had been anticipated in order to sell in a competitive market, and that factor often involves losses which bring on failure or voluntary liquidation.

Sales Relationship

Most managements measure their inventories by a relationship with their annual net sales. This relationship varies among different lines of business. Dun and Bradstreet has been compiling sales-inventory relationships for many years. Among the higher ratios are manufacturers of paper boxes with 9.7 times and manufacturers of confectionery with 9 times. Among the lower ratios are manufacturers of drugs with 4.5 times, manufacturers of industrial machinery with 4.5 times, and canners of fruits and vegetables with 3.4 times. Naturally, if a management can obtain a 7-times relationship when a 5-times relationship is typical for his industry, that management has a jump on competition and a more healthy, well-balanced finan-cial condition. There is, however, a fallacy here and I can only point it out by using a few hypothetical figures:

Net
Working
Sales Inventory Capital
Case A \$500,000 \$100,000 \$150,000
Case B 1,000,000 200,000 150,000
Case C 2,000,000 400,000 150,000

As sales expand, a faster turnover of inventory must be obtained; not just the same turnover. Let us suppose there is a loss equal to 50 per cent of the inventory in the above hypothetical figures. In the Case A, the loss is \$50,000 and the net working capital becomes \$100,000. In the Case C, the loss is \$200,000 and the net working capital becomes a deficit of \$50,000, and the company is bankrupt. So the relationship between sales and inventories must be supplemented by the relationship between the inventories and the net working capital. This relationship has been computed for many lines of business but in no case should the inventory at the end of a fiscal year

be greater than the net working capital.

Fixed Assets — For every line of business activity there is a normal percentage of tangible net worth that can be invested in real estate, buildings, machinery, equipment, tools, furniture and fixtures. Studies made by trade associations, by schools of business administration, and by our own business indicate what this percentage is for various lines of business. Among industrial companies this proportion ranges from around 1 per cent for converters of cotton goods to approximately 75 per cent for large integrated petroleum corporations.

If a company has a greater percentage of its tangible net worth invested in fixed assets than is normal for its line of business, its income account will be burdened with relatively heavy depreciation charges and it will be at a competitive disadvantage. Moreover, if fixed assets are excessive a company will concurrently have a weak net working capital position and if it is handling a normal volume of sales, a topheavy debt. Both can be serious problems. In no case should the depreciated value of fixed assets be greater than three-quarters of the tangible net worth of a business and in most lines of activity, appreciably smaller.

Liabilities

Liabilities — Likewise, an unsound financial condition develops with excessive current liabilities and with excessive funded liabilities. No business ever became financially involved without incurring top-heavy liabilities which then could not be met on time.

The heavy liabilities might have come about through carrying heavy inventories, which in liquidation involved losses; by acquiring top-heavy fixed assets with a resultant weakening in net working capital; by acquiring other assets such as investing in and financing subsidiary organizations, assets which subsequently became frozen.

Experience in analyzing many thousands of balance sheets in virtually all lines of industrial activity, in good times and poor times, has indicated that a business tends to become vulnerable when (1) its current liabilities exceed three-quarters of its tangible net worth, and (2) if

there is a funded debt of any nature, when that funded debt exceeds the net working capital of the business.

Investments in and Advances to Subsidiaries and Affiliates — Funds invested in subsidiaries and affiliates and advances made to subsidiaries, affiliates, officers, directors and employes tend to reduce the net working capital of a business. That is actually so to the extent that investments are permanent and to the extent that advances are increased from year to year and become frozen. Such situations seem to be increasing in number and to present serious situations.

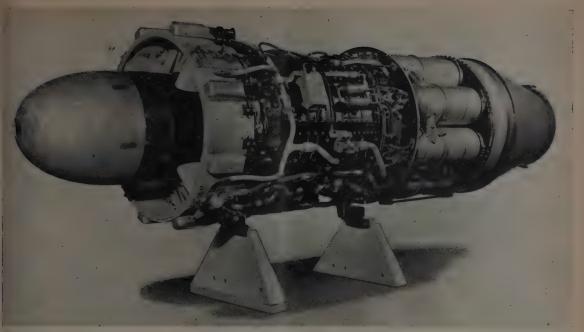
Big Turnover

Adequate net working capital is absolutely essential for the sound operation of any business and very careful consideration should be given to any policy which impairs the excess of current assets over current liabilities. The unfortunate part of investing in subsidiaries and affiliates, and making advances to subsidiaries, affiliates, officers, directors and employes is that the original investment or advances often are small. Then they seem to grow from year to year until the management suddenly awakens to a situation which should never have been allowed to arise.

There are 4,200,000 businesses of all kinds and descriptions in the United States and, as I have mentioned, 2,500,000 are industrial and commercial concerns. New York State has the largest business population. California is second. Ten years ago California ranked fourth.

We have a tremendous turnover of businesses in the United States. There is no place on the face of the earth where it is as easy to go into business and as easy to go out of business as in our country. In recent years between 350,000 and 400,000 concerns have been liquidated each year. That does not include businesses where control has been sold to new hands and to that extent also represents a new enterprise if not a new entity. If successions of this nature are taken into consideration our annual "ins" and "outs" would be between 550,000 and 600,000 businesses.

During the past 15 years of our hot-house economy with almost con-



Silicone rubber is used extensively in the heating and anti-icing systems of modern aircraft,

General Electric photo

SILICONES — INDUSTRY'S HANDYMEN

OR several weeks now, Chicago TV audiences have been treated to an unusual commercial—a nan who appears in front of a brand-new car and proceeds to set he fender on fire.

The man isn't crazy. He's merely rying to sell a new auto polish conaining silicones, another of the themical wonders introduced during World Wa'r II that is making good in peacetime. Fire is only one of many things silicones will stand up against, and auto polish is but one of thousands of new uses that have been found for these man-made themicals, which go Mother Nature one step further. In fact, as one expert put it: "Name almost any indusry, and it's almost sure to have a use for silicones."

If you took high school chemistry, ou probably remember that there re two kinds of chemical elements organic and inorganic. Silicones ombine the two. Silicones are a mixNo matter what a plant makes, it could find a use for them, says a Dow-Corning official

By PHIL HIRSCH

ture of inorganic silicon (the basic element in glass) and organic carbon compounds (found in such things as gasoline and plastics).

The value of silicones lies in the fact that they retain the best properties of both inorganic and organic substances. Like glass, silicones are good insulators, are resistant to heat and cold, don't absorb moisture, and don't combine with most other chemicals. But like organic compounds, silicones can be processed into watery liquids like gasoline, into solids as rigid as the most rigid plastic, and into just about any state

in between, including such substances as oil, grease, resin, or rubber. In each case, the silicone product has far greater stability than any carbon compound can possibly have.

You can see this clearly by comparing silicone rubber with natural rubber. The physical characteristics of the former are unaffected by prolonged exposure to temperatures ranging from as low as -120 degrees Fahrenheit to as high as 500 degrees Fahrenheit. The temperature range of natural rubber, generally, is from

(Continued on page 25)

Silt Threatens Our Dams

Reservoirs are filling up at a rate that has government officials worried



Shasta Dam is one of many with sediment trouble.

OME of our dams are getting no damn good," a government engineer remarked recently while discussing the rapid silting of many big reservoirs in the West.

That's the situation that has government engineers staying up nights trying to think up "good" excuses they might have to make to Congress if there is any investigation of the problem.

When our engineers dammed up the rivers to make reservoirs they didn't realize how much water-borne silt would be dammed up too. The silt builds up the bottoms of the reservoirs until their capacity to hold the original amount of water is considerably lessened.

There are more than 8,400 dams and their reservoirs in the United States. According to the federal government, their value is conservatively estimated at \$2 billion.

At least one-fifth of the number, the biggest ones, representing threequarters of the total investment, depend solely upon storage for their usefulness. When their storage capacity is gone as a result of silting, they are of little value.

Just Awakening

The necessity of making provisions for reservoir silting is only now being recognized by engineers. But engineers have kept a watchful eye on the loss of water storage in various reservoirs for a number of years.

Elephant Butte Reservoir in New Mexico, for example, has lost 16 per cent of its capacity in 25 years.

Guernsey Reservoir on the North Platte River has lost 21 per cent in 12 years, and the Cucharas Reservoir in Colorado 35 per cent in 25 years.

The silting or sedimentation of reservoirs is not a new problem. In the early days of the West, pioneers diverted irrigation water directly By

JOHN L. KENT

from streams. They found that when small earth dams were built across the streams to hold back the water, the small reservoirs created frequently were completely filled with sediment in a matter of weeks.

As larger dams were built, some chiefly for storage of water, rather than diversion, the necessity of the storage area to remain at full capacity became more important. A reservoir for electric power purposes must hold enough water to supply peak demands at a time when rainfall may not be enough to replenish it.

A Bureau of Reclamation engineer in Washington gives this background for the government's concern over silting:

"In 1909 we completed the Laguna Dam on the Colorado River. It was then regarded as a major diversion dam and cost \$2 million. It was 13 feet high, 4,844 feet long, and raised the water surface 10 feet. Water was backed up for about 10 miles."

Then he added:

"In less than a year, the basin created by this dam had been filled with sediment. This started us thinking."

The "thinking" led to investigations by a dozen government agencies in addition to the Bureau of Reclamation. Little by little the "facts of life" on suspended matter in water, its uncanny proclivity to settle out of the water behind dams, AUGUST, 1954



Desilting works on the All-American Canal in California.

nd other hydraulic data were colected.

By 1948 engineers knew enough bout the phenomenon so that they ould make a big investigation of a major reservoir. In one of the most elaborate scientific surveys ever made, engineers of the Department of the Interior and the Navy teamed p to measure the sedimentation of take Mead. This lake is the world's argest artificial body of water. It was created when Hoover Dam was will across the Colorado River.

Supplies Los Angeles

The Hoover Dam hydroelectric lant is the largest electric producer n a reclamation project and suplies power to Los Angeles and other buthwest areas.

A miniature fleet of power boats as transported by the Navy overend to the shores of Lake Mead. With the boats and equipment came avy Ordnance Bureau officers, and echnicians from the Navy's Electonics Laboratory and Underwater bund Laboratory.

Technicians with the joint survey ere interested chiefly in the rate at hich sediment was accumulating the reservoir. Blueprints and land aps used during construction of e dam gave the original bottom entours and heights of the land.

To find what changes had octred in the bottom since the start storage in the reservoir, a picture (Continued on page 38)



The Colorado River has been called "too thin to plow and too thick to drink."



This government survey measured sedimentation on Lake Mead.



Mutual affection society.

U. P. photos

N 1856 P. T. Barnum made a trip to Europe. His mission: to search the Continent for oddities that might interest people in the United States.

Traveling through France Barnum was intrigued by bright yellow fish which he saw swimming languidly in the fountains of several large estates. They were known as "goldfish," Barnum learned. The first specimens had been imported more than a century before by the notorious Madame de Pompadour, mistress of Louis XV.

Barnum, whose shrewd eye never passed up a money-making possibility, brought a few goldfish back to America. People saw them, were intrigued as Barnum had been, and clamored to buy fish for their own homes. Along with the fish, merchants sold bowls, feed and other

miscellaneous supplies in everincreasing amounts.

Today there are 30 to 50 million goldfish in the U. S. Raising and merchandising them has reached such proportions that even P. T. Barnum would be amazed to see what he had started.

Keeps Up With Goldfish

America's pet industry has grown apace with the goldfish business, which is just one part of the whole. A survey made by All-Pets magazine gives the surprising information that America harbors no less than 26.7 million cats, 22.6 million dogs and 9.4 million parakeets. Canaries number 5.9 million and dealers report sales of about 100,000 monkeys a year. Baby turtle sales reach 3 million annually, while less conven-

Want To

Ry

CHARLES W. KEYSOR

tional pet fanciers buy all sorts of strange and exotic creatures.

"If it swims, crawls, walks or flie somebody—or probably thousand of people—keep it for a hobby advises one veteran pet wholesale

Reptile collecting is perhaps the most bizarre of all pet specialties. Amateur herpetologists keep ever thing from boa constrictors to croodiles. One Chicago collector, for eample, had twenty-two kinds snakes in his basement. All we well until a box fell through the cage screen one day and ten reptile escaped. None were dangerous, lucily, and one by one the hobby rounded up his strange pets. If found them coiled in tool boxes stretched on rafters.

Still another collector — a liza fancier — used to enjoy feedin chopped meat and raw eggs to h Gila Monster, a poisonous lizard n tive to the southwestern U. S. I had a collar for the reptile and use to take it walking through the house

National magazines recently to the story of another pet fancier one who bought a baby lion becault looked so cute. Intelligent alplayful, it made a wonderful puntil the beast outgrew the hou Finally the owner gave his lion to zoo, but not until after strangers the neighborhood had been scar out of their wits by the sight of lion walking the streets.

Anybody who wants to can buy boa constrictor for five dollars p foot, a de-scented skunk for \$40, turtle for forty-nine cents or a Scar Macaw for \$150. Also carried in t inventories of some dealers: Kink jous (a variety of monkey), \$5

Buy Your Family a Kinkajou?

Or would they prefer a boa constrictor at \$5 a foot? Your pet shop can deliver almost as much as Noah's Ark

Ocelots (a small leopard), \$85; and ling Vultures, \$50. The list availble to pet fanciers includes pracically every species that rode out the lood aboard Noah's Ark.

The person purchasing a pet as started himself on a continuous uying campaign. The tropical fish ancier, for instance, can easily spend 75 for his original setup, including quarium, stand, thermometer, air ump and fish. As long as he keeps is collection he will keep buying ich items as seaweed (which may ost \$40 per plant), shells, new fish, nd packages of "fresh frozen water eas." Buying a bird is but a preminary to the purchase of cages, bys, feed, cuttlebone, medicines, and honograph records for teaching arakeets how to talk. Monkey faners buy antibiotic drugs to cure eir pets of colds.

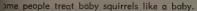
For cats and dogs there are baskets, muzzles, sweaters, curry combs, flea powder and worm pills. Food is probably the biggest item in this field, however. Nobody knows exactly how many horses end up each year on the dinner plates of the nation's 49-odd million cats and dogs, but the U. S. government reports that in one month its inspectors checked some 23.7 million pounds of animal food!

Bootlegged Lizards

Surprisingly enough, lizards are — or rather were — sold by the hundreds of thousands. In fact, so many chameleons were exported from Louisiana that the state legislature recently passed a law prohibiting their shipment. It seems that the (Continued on page 22)



Three foxes and friend.











Scene from literature appreciation film made by Chicago's Coronet Films.

ALL MOVIES DON'T COME FROM HOLLYWOOD

By CYRUS LLOYD

YOU may never see a camera crew and a glamorous star "on location" around Chicago.

Nonetheless, the city has developed

into one of the world's major film

In many respects, it surpasses Hollywood, traditionally the motion pic-

ture center of the world. But when Hollywood's product is predominantly 35-millimeter entertainmen features, Chicago's is 16-mm educational or industrial films. In addition, the equipment industry also centers in Chicago. Literally, you can have your entire production from studio to screen and in cinema scope and stereophonic sound, too made in Chicago.

Seldom will you see a Chicage product, equipment aside, in the comfortable surroundings of theatre. Usually it will be seen in a sales meeting, an employe training session, a group discussion, or in classroom where the students may be using film in anything from biology through history, with vivid side excursions into sociology and political science.

It's all part of the growing use o films in literally all situations About one-third of all American schools have the necessary basi audio-visual equipment; more than 5,000 companies regularly use film in training, sales, and public-rela tions, some with budgets as high a \$500,000 per film. The army cur rently shows 93 million man-hour of film annually - and so the stor goes. Film can accomplish end quickly and easily, and with an iden tical presentation on repetitiv showings. It can show the length metamorphosis of a butterfly or the hidden operation of an engine valve in ten minutes. It can give widel separated groups of people the same interpretation of an event or a mes sage.

If you want to talk in superlatives the "biggest" of everything is in (Continued on page 30)





The change in plowing is portrayed in Encyclopaedia Britannica Films' 16-mm movie, "Productivity, Key to Plenty."

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Want To Buy Your Family a Kinkajou?

(Continued from page 19)

state's chameleon population had been depleted to the point where Nature's balance was upset and harmful insects were getting out of

This development gave rise to the practice of bootlegging chameleons - a little-known species of criminality which has not, as yet, been investigated by Congress or blamed upon any underworld syndicate.

Likewise, a ban on the export of baby alligators by the State of Florida has resulted in some bootlegging, according to those in the know.

Both these restrictions have practically removed the once-popular reptiles from pet shop display cages. One wholesaler who used to buy 10,000 mealworms at a time for chameleon feed, now has discontinued this line.

There are some 8,000 retail pet shops scattered about the country plus an unknown number of drug, hardware and department stores that sell pets or pet supplies as a sideline. Business mortality in the pet shop field is high. Many people who are enthusiastic hobbyists enter the field thinking it will be an easy way to make money.

"Nothing could be further from the truth," says John Krause, proprietor of Chicago Heights Pet Food and Supplies. "You've got to know and practice all the fundamental small business operations. On top of this, you've got to know enough about pets to advise your customers what to do when their goldfish begin developing fungus and their canaries stop singing.

"One more thing - you aren't dealing with inanimate merchandise; part of your inventory is alive. You have to watch temperature, food and water supplies night and day."

Like other small businessmen, the pet shop operator has to promote constantly. One of the best gimmicks is displaying unusual fish and animals to attract customers. One Chicago retailer kept a lively monkey in his window. Its antics drew crowds of people - many of whom patronized the shop. De-scented skunks, ocelots, bright colored parrots and tanks of tropical fish are often used for this purpose. To get crowd-stopping displays, one ingenious pet shop owner in Richmond, Va., got to know a transcontinental airlines pilot, who shipped many curious birds and animals to him from South America.

Dogs and cats can be a real problem to the shop that fails to sell them while they're still puppies or kittens. When they get beyond the lovable baby stage, they become much harder to sell and have expensive appetities.

Goldfish are grown by the tens of thousands in special hatcheries. They are shipped to wholesalers in tank trucks or in smaller lots by railway express. Freight charges for shipments by rail are one and onehalf times the regular first class rate. This covers the cost of an attendant who rides with each railroad shipment to feed and change water en route.

"We only lose about one-tenth of one per cent of each shipment," advises Rudy Kostyal of the Auburndale Goldfish Company of Chicago, an organization that wholesales some 500,000 goldfish and 100,000 baby turtles a year.

Tropical Fish

Most tropical fish are raised commercially in Florida or southern California hatcheries. Shipping problems are like those in the goldfish business, but now and then special arrangements are made to bring fish all the way from the tropics. Nowadays, tropical fish can be shipped thousands of miles in a plastic bag containing a large bubble of air which sustains them en route. One dealer in Java recently sent several hundred tropicals all the way to Germany. The loss was a mere two per cent.

Fish are marked up 100 to 1501 per cent by the retailer, and other pets also yield a sizable profit margin. "This isn't out of line," explains one wholesaler, "when you consider that you're dealing with a live commodity on which you can't get insurance."

In the tropics animal dealers ply regular routes on jungle rivers catching specimens or buying them from native trappers. Stock is then sent by air or ship to the United States, where it is held in inventory by special dealers who advertise their exotic wares in various trade journals. Thus, when your neighborhood pet dealer gets a request for a suckling chimpanzee, a cobra or a white swan, he knows exactly whom to contact.

One of the pet industry's biggest current headaches stems from the importing of parrots and parakeets. These birds are subject to psittacosis or "parrot fever," a deadly virus which attacks humans and domestic fowl. To curb the spread of this disease, Federal authorities recently outlawed the importation of birds capable of carrying it. But the parakeet market has been so lucrative that contraband birds are being smuggled across the border from Mexico. Last winter, San Diego police caught two men who pleaded not guilty, even though one man's home contained 600 illegal para-keets. Tests showed several of the birds were carrying the highly infectious virus.

Outbreaks of parrot fever have caused alarm in some cities, and here and there local health authorities have tried to stop the sale of all birds. In Texas there was a much publicized outbreak which involved 63 poultry packing house workers. Four died. Stories like this present the pet industry with a grave public relations problem.

Some dealers have tried to meet this menace by issuing health certificates with every bird sold. No doubt parrot fever and the resultant bad publicity have, to some extent, caused the slump in parakeet sales this last year. Another factor, according to Petman Krause, is that the market is nearing the point of saturation.

Gold Mine for Chains

Pets of the more common types have been a gold mine to the chain stores. Kresge's, Woolworth's, Neisner Brothers, W. T. Grant and other chains find birds, fish and turtles highly profitable.

"Ever notice that the pet department is always located in the back of a chain store?" asks L. G. Wills, a Kresge store manager for 24 years. "The pets draw customers through the entire store and we have found that sales in our other departments increase as a result."

Wills was one of the first mana-

gers to discover the value of pets in chain store promotion. In an effort to boost the volume of business in his LaSalle, Ill., store, Wills ordered 1,000 goldfish back in 1946. He advertised in the local paper that one would be given to each customer as long as the supply lasted on the coming Saturday.

"You should have seen the line of people waiting when we opened the store that morning," recalls Will. "It was a regular mob! We got rid of all those fish in a couple hours. Sure, we gave away the goldfish. But we sold most of the people bowls, shells, sand and seaweed, not to mention ice cream, shoe laces, books and items from every other department in the store."

According to Rudy Kostyal of the Auburndale Goldfish Company, goldfish are being used in a variety of ways that would have gladdened the heart of promotion-conscious P. T. Barnum.

"The other day we got a call for 150 bowls of fish to be used as Sunday School attendance prizes," says Kostval. "We know, too, that many doctors are prescribing goldfish watching as a pastime for people



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convalescing from rheumatic fever. These same dentists, doctors and even psychiatrists are putting fish in their waiting rooms.

Auburndale markets turtles to many petshops, and Kostyal takes obvious pleasure in telling how the businessmen in one Midwestern city raised money for the local schools by conducting a turtle race. Each businessman bought a turtle for five dollars. After much publicity in the local press and radio, a race was held. All proceeds were used to help the schools.

There are many other instances which illustrate the kind of imaginative marketing and promotion techniques being used in the pet industry. Wholesalers and retailers who think up new angles do very well, indeed.

Oddly enough, there is no established nationwide trade association to help dealers and wholesalers with their many specialized problems. However, certain specialists have banded together to carry out promotions such as Cat Week, National Cage Bird Week, and, of course, Dog Week. These are usually co-sponsored by pet shops and local cat and dog and bird lovers' societies.

The alert shop owner never misses a chance to deepen his customers interest in birds, fish, and animals. In some instances this amounts to instruction in Nature study, with the dealer telling his customers what sort of wild life they may find in the national parks and other vacation spots. Many dealers also help their customers photograph favorite pets.

This sort of things leads naturally into diversification, which the progressive pet shops find very profitable. For example, when business slows in the summer, alert pet shops board parakeets, canaries, dogs, and cats whose masters go away on vacations. To cash in on the fishing mania, a few shops make use of their know-how with fish to stock a supply of minnows. One pet shop in Indiana got so many night calls for bait that the partners had to sleep in alternate shifts.

Ingenuity in merchandising, plus a friendly crackerbarrel relationship with customers, are the retail pet dealer's most valuable assets. His business is built upon the idea of selling quality merchandise that provides a continuing market for his goods and services.

Don't Neglect Your Balance Sheet

(Continued from page 14)

stant inflation we have averaged 7,179 business failures with losses to creditors, annually. That is not a large number of failures per year. For the preceding 15 years, from 1924-1938 inclusive, we had an average of 19,739 business failures, annually. Today, there are 50 per cent more businesses in existence than in 1938. In other words, prior to the inauguration of our inflationary economy, we averaged more than two and one-half times as many failures on two-thirds as many active businesses as we have today.

Failures for the first five months of 1954 have run 34 per cent higher than the number of failures for the first five months of last year. That is due, in my opinion, less to the recession from which we are emerging than to the new period of intense everyday, but normal, competition which we are now entering.

In conclusion, I would again emphasize the importance to business executives in a thorough understanding and knowledge of the bal-

ance sheet and the healthy distribution of its assets, liabilities, and investment. The great majority of corporations which have become financially embarrassed or which have little or no profits, arrive there as a result of one or a combination of six unsound financial policies. These six unsound financial policies are:

- 1. The unwise extension of credit in large amounts to very questionable risks.
- 2. Carrying inventories which are out of proportion to net working capital as well as out of proportion to net sales, a policy which often leads to substantial losses as prices fluctuate downward or due to obsolescence.
- 3. Carrying an excessive investment in fixed assets, that is, in real estate, buildings, machinery, equipment, tools, furniture and fixtures.
- 4. Incurring a top-heavy debt structure of current liabilities of current and long-term (funded) liabilities.
 - 5. Extension of top-heavy loans to

fficers, directors, employes, subsidaries or affiliated organizations or nvestments in such organizations. 6. The payment of excessive salries and dividends.

When definite fixed guides, based n a sound understanding of the elationship of important balance heet items, are determined and then dhered to conscientiously, most ritical financial problems will be orestalled from arising in the first place. That is where sound financial oolicies play their part. Critical problems are prevented from arisng. If one does not over-invest in xed assets, he cannot have a topeavy fixed asset position with its ccompanying problems. If one does ot speculate in inventories, he canot have a top-heavy inventory posiion with its accompanying prob-

Many businesses are operated and any management decisions are nade on what appears will give the naximum of immediate profits. Let ie suggest that the most successful usinesses are those where manageent decisions are based on policies hich will give, not the maximum f immediate profits, but the maxinum of profits over the years. There a tremendous difference between ne bases of these two broad operatig philosophies.

Silicones

(Continued from page 15)

20 or -40 degrees to 250 or 300 grees.

When things get too hot, natural ibber loses its bounce, becomes mmy and adheres to any metal at happens to be nearby. Often, e sulphur and chlorine in the rubr will corrode the metal.

The turbo-supercharger connecons on diesel-electric locomotives e one place where the need for a bber that can take high temperares has been met by silicones. Siline-rubber gaskets used in these nnections remain flexible and stae in temperatures of around 300 grees. Door seals on ovens encounsimilar heat. For a long time, dustrial oven makers have used icone rubber seals. Now, the maial is going into kitchen ranges. id on chemical processing machin-, silicone-rubber gaskets have reiced asbestos (which had temperature stability but lacked resilience). Gaskets used in steam irons and radiator pressure relief valves also are being manufactured from silicones.

Silicone rubber has replaced natural and synthetic rubber at several points in automobile and aircraft engines. Silicone "O" rings are now used in the fluid drive systems of all the autos made by one major manufacturer. Ordnance transmissions also use silicone rubber seals because these seals are immune to the corrosive elements in transmission fluids and stand up well under severe operating conditions. There are literally miles of silicone-rubber glass-cloth ducting in the anti-icing and heating systems of today's aircraft. Exhaust air at pressures as high as 125 pounds per square inch, and at temperatures of more than 500 degrees Fahrenheit, are often carried in these systems. In this application, silicone rubber has been found superior to both synthetic rubber and metal.

At the other temperature extreme, when it's cold outside, ex-



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LAKE & LOOMIS STS. MOnroe 6-0921 posed rubber becomes as hard as rock. The B-36 bomber, for example, flies at altitudes of around 35,000 feet, where the temperature sometimes gets down to 120 degrees below zero. The plane's bomb bay doors are sealed by silicone rubber strips more than 500 feet long. These seals have gone through hundreds of operating hours without deteriorating. Other types of rubber last no more than 20 hours under such conditions, according to Arthur C. Porter, one of the engineers who helped design the plane. "It is doubtful if the B-36 now would be as highly efficient if it had not been for the development of silicones," Porter

Silicone electrical insulation beats about anything developed to date. For a long time, electrical manufacturers have been able to pack more power per pound into their product, thanks to the ability of silicone insulation to stand up under high operating temperatures. General Electric, for example, produces a 200-amp, 50 per cent duty cycle, 58-volt welding transformer which is accommodated in the frame size previously used for a 180-amp, 20 per cent duty cycle, 44-volt unit.

On electric cable, silicone rubber provides extra protection. If it does burn, it leaves a non-conducting layer of silicone dioxide bonded to the wire. Because of this feature, silicone insulation has been wrapped around electric cables on several ships, where, in a serious fire, it could prevent the vessel from being gutted.

Silicone sprays are applied to bushings on high-tension lines. The bushings keep the power in the lines from reaching the steel towers and short-circuiting.

The high arc resistance of silicone-impregnated plastics makes them useful for switchboxes and other kinds of electric terminals. Arc-resistance tests have shown that on installations where a conventional phenolic plastic breaks down in three seconds, silicone-glass plastics will stand up for 200 seconds.

Small, liquid-filled capacitors and transformers require resilient bushings which provide a positive seal, yet will not contaminate the liquid.

Silicones have been used extensively to coat metals subjected to high temperatures. Within the past few years, the new chemical has

made it possible to substitute ordinary sheet steel for stainless steel or smokestacks, space heaters, mufflers and stoves. The former metal sell for about one-tenth the price of th latter. Unaided, ordinary steel won'take the heat generated in these in stallations. But, coated with a silicone-aluminum paint, it will no deteriorate after prolonged exposurat temperatures of up to 750 degree Fahrenheit.

Non-Sticking Qualities

The baking and plastics industry were among the first to exploit the non-sticking qualities of silicones Today, the tire, die-casting, and packaging industries are employing this wonder chemical for the same purpose. In the metal industry, for example, once molten metal has so lidified, no amount of pulling wil extract it from a mold unless the mold has been lubricated. Ordinary lubricants cannot withstand the high temperatures involved. Silicones which remain stable under high temperature conditions, have speed ed production and improved the appearance of the final product. Sili cones are also used as release agent on packaging machinery parts which come into contact with food or with adhesives. Silicone coatings are now applied to airplane de-icer boots and are used to separate sand shell from hot metal patterns in found ries that use the new shell-molding process.

Silicones are being used extensively in engine lubricants. The Air Force has an electric motor that charges the circuits of airplane machine guns. A silicone lubricating fluid enables the motor to operate efficiently in temperatures of more than 100 degrees below zero.

In steam generating plants, wher moving parts are often subjected thigh temperatures, silicone lubr cants are performing a similar jot A few years ago, for example, th Dow Chemical Company built a \$1 million steam plant at Midlan Mich. Six months after the plan went into operation, trouble developed in a gadget known as a "pneumatic position regulator," which translates air pressure into mechanical movement by means of a leathe piston.

The piston was lubricated will neatsfoot oil, but the high tempera

are of the piston chamber reduced the oil to a greasy residue and harened the leather to the point where had to be replaced frequently. New leather pistons were installed, his time lubricated with silicone il. They are still operating, more than two years later.

Silicones have come to the aid of il manufacturers wrestling with the roblem of detergent additives. hese detergents enable the oil to leanse the engine as it flows through e lubricating system. But deterents have a tendency to foam, which educes engine power. When a silione compound is added to the oil, ne foam is eliminated without afcting detergency. This foam-inhibing ability also makes silicones a atural for use in the manufacture rubber gloves and baby nipples. licones eliminate foam in the liqd latex which unchecked would use pin holes to appear in the nal products.

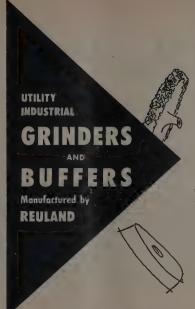
Long List of Uses

The list of uses is a long one. licones are used in "hard" auto ad furniture polish to make them read evenly, in waterproofing compunds applied to masonry walls, ad in fluids which sterilize medical ad dental equipment.

One of the big reasons for the ineased utilization of these organicorganic miracle workers is that ey have been greatly improved ring the past few years by General ectric and Dow-Corning, the major oducers. According to J. D. Sauer, engineer in GE's silicone prodts department, the tensile strength, for strength, and elongation propties of silicone rubber have been proved from 300 to 500 per cent ce 1947.

Silicone rubber and oil are availale at \$3.50 or \$4.50 a pound tody, compared to about \$6 for the mer and \$7 for the latter five rus ago. But despite this reduction, by still cost about ten times as anch as organic oils and natural orber. Saunier believes that furtincreases in use will narrow the tee gap appreciably in the next ty years.

Mready, however, silicones are big biness. Exact figures are closely firded, but it has been disclosed by the formulators of auto and furnice polish alone use about one mil-





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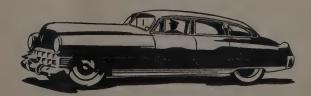
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 Your inquiries invited—write or phone. Investigate the sites available for the new plant to accommodate your growing business. lion dollars worth of silicone of pounds annually, and this is not largest market for the chemical. Connecticut Hard Rubber compone of the major producers of eproducts, reportedly has doubled business every year since enter the silicone field shortly after Wowar II.

The future of silicones summed up graphically by Dr. R. Collings, vice-president of D Corning: "Our salesmen have big problem. When they are leing for new business they don't knowhere to stop. Any plant they go no matter what it makes, could a use for silicones."

New Applications

Several new applications are rebeing tested. A major glass be manufacturer, for example, has duced breakage by applying a cone emulsion to the inside of container. According to Dr. Cha E. Reed, general manager of Cosilicone products department, glass and fine china soon may be ceiving similar treatment.

Several new silicone water relents for leather and synthetic fit are also being tested. The won chemical is used in about 25 cent of the waterproofing compounds on the market. The big vantage of silicones is that they not fade away despite repeated cleanings or launderings.

Here are some of the other poble uses for silicones that are nunder intensive study:

Silicone separator strips that prevent the expansion and cont tion of building walls; silicone ber tubing and molded shapes can be substituted for human tis in plastic surgery and internal erations; automobile tires that last as long as your car; shatterpr low-temperature resistant auto dows; steering and braking ff able to survive temperature tremes; silicone bunion pads silicone-impregnated baby p which will reduce skin irritat permanent, sealed-in cooling syst for automobile engines.

This list could be expanded most indefinitely. That's anotherason why "silicone" is a commond in a lot of front offices the days.



Industrial Developments

in the Chicago Area

NVESTMENTS in industrial plants in the Chicago area totaled 16,453,000 in July compared with 12,348,000 in July, 1953. Total inestments for the first seven months of 1954 stood at \$149,717,000 comared with \$86,545,000 for the same eriod in 1953. These figures include xpenditures for the construction of ew industrial plants, expansions of xisting buildings and the acquisiion of land or buildings for indusrial purposes.

Sinclair Refining Company is naking a major expansion of its renery in East Chicago by the addiion of a catalytic reforming unit nd auxiliary equipment. The facilies will produce high octane gasone and aviation gasoline com-

Signode Steel Strapping Comany, 2600 N. Western avenue, is arting construction of the first unit its new plant in Northfield Townip on Lake avenue between Pfingen road and the Chicago and orth Western railway. Skidmore, wings, Merrill, architect.

Pennsylvania Salt Company, niladelphia, has acquired seven res of land on Lincoln avenue st of Chicago Heights on which will construct a blending plant. he first unit will contain 25,000 uare feet of floor area. The plant ill be used for processing mainteince chemicals for laundry and dry caning industries, sanitizing agents r farm and dairy units, bonding d pickling materials and acidsisting cements.

Field Enterprises, Inc., has purased a building at Rush street and st North Water street, which will razed. The 15,000 square feet of nd on which the building stands, combined with 45,000 square feet adjacent already owned by Field Enterprises, will, at a future date, be the site for a new plant for the Chicago Sun-Times.

- Wilson Laboratories, Division of Wilson and Company, is starting construction of a new laboratory and office building at South Western avenue and 42nd street. The structure will contain approximately 14,000 square feet of floor area.
- Columbia Pipe and Supply Company, with two plants in the Chicago area, one in Hammond and the other at 1120 W. Pershing road, is expanding the Pershing Road operation by the addition of 25,000 square feet of floor area. The addition will be a one-story and mezzanine structure designed by A. Epstein and Sons, Inc. Poirot Construction Company, general contractor.
- Schulz and Hirsch division of Serta of Chicago, bedding manufacturer, is erecting a 32,000 square foot addition to its factory. A. Epstein and Sons, Inc., engineer; Fred Teitelbaum, general contractor.
- Spraying Systems, Inc., Bellwood, is adding 25,000 square feet of floor area to its plant. The company manufactures industrial and agricultural spray nozzles. Olsen and Urbain, architect; the Cook Company, general contractor.
- Ratner Manufacturing Company, maker of a diversified line of chemical products, has purchased the 30,000 square foot building at 2735 N. Ashland avenue. William Kaplan, broker.
- L. C. Kohlman, Inc., 724 W. Washington street, is building a sheet metal shop at 1801 N. Paulina

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street. Campbell-Lowrie-Lautermilch Corporation, general contractor.

- Comet Die and Engraving Company, 123 S. Laffin street, is erecting a 14,000 square foot plant at 1150 N. Cicero avenue. Continental Construction Company, general contractor.
- Burgess-Norton Manufacturing Company, Geneva, is making an addition to its plant which will provide room for additional grinding facilities. The company manufactures automotive parts, screw machine products, etc.
- Steel Mill Products Company, 176 W. Adams street, is starting construction of an 8,000 square foot warehouse, factory and office building at 5675 N. Elston avenue. Morton L. Pereira and Associates, architect.
- Sauerman Bros., Inc., 522 S. Clinton street, is erecting a new building at its plant in Bellwood which will house the company's office facilities. The structure will con-

tain 11,000 square feet of floor area. The company manufactures earth moving equipment and cable clamps. J. L. McConnell and Associates, architect.

- Easy Plating Company, 1125 S. California avenue, has acquired a two-story building at 4858 W. Lake street for expanded operations. J. J. Harrington and company, broker.
- Culligan, Inc., manufacturer of water softeners and supplies, is expanding its plant in Northbrook. City Wide Builders, general contractor.
- Quality Machine Service, 2343 W. Belmont avenue, is erecting a plant at 3515 N. Kenton street. The plant will contain 6,000 square feet of floor area. The company does automatic screw machine and lathe work.
- Ayerst Laboratories was reported in this column last month as purchasing a plant at 3435 N. Knox avenue. Louis B. Beardslee and Company, industrial realtor, was broker in this transaction.

Movies

(Continued from page 20)

Chicago – the biggest education producers, the biggest industriporducers, and the biggest equipment manufacturers. Chicago its is ringed with production companiwhich compete vigorously and successfully on the basis of their wo and lower costs.

Trade sources estimate that preduction of equipment here, including screens and sound equipment grosses close to \$50,000,000 annual about half the national total. The largest manufacturers in the fies are Chicago firms, including Boand Howell, Ampro, S.V.E. (one the pioneers), Revere, Webste Magnecord, Radiant Screen, Dalif and others.

In film production, Chicago h both the largest educational and the largest industrial producers. Nationally there are more than 200 eductional film companies operating, betwo, Encyclopaedia Britannic Films, Inc., the Wilmette subsidia of the book company; and Coron Instructional Films, Inc., an Esqui subsidiary, divide between 60 and per cent of the \$15 million schomarket.

Both these firms are in consta production, but because of the r ture of their films they operate a smaller budgets and slower return than do comparable industrial producers. Each offers more than 5 titles, mostly one-reel, on subject anging from the life cycle of a insect to vocational guidance are social science.

Development Leaders

Both have been leaders in new covelopments designed to expand the markets as well as to enhance to educational values of their productions. EBF, for example, has us X-ray motion pictures; Coronet paneered the use of color and "I sync" sound in the classroom. Bo are constantly pushing into new concluding areas where film has a been previously used.

Chicago also has one internatic ally-known producer whose we bridges the difference between ed cational and industrial films — Jol Nash Ott, Jr., who gave up a ban ing career to parlay a hobby into

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féssion. He began experimenting time-lapse photography in his h school days, laboriously exposfilm one frame at a time at stated ervals to get a motion picture of entire growing cycle of a plant. day his elaborate studio in Wilte produces footage used by Disin Hollywood, in educational s, and in industrial and scientific ductions. He has even made vers dance in rhythm to a nuss waltz by taking time-lapse their turnings toward light and chronizing the resulting footage the music.

Commercial Films

omewhat different is the pure mercial film, made to present a nt of view or to advertise a given duct. In this field, Chicago stuare busy and leading. One proer, Wilding Pictures, recently pletely the first commercial emascope production made for a mercial client. Wilding is ipped for any sort of Hollywood . It operates in one of the hisc spots of the film industry, the Essanay studios on Argyle, where th Beery, Gloria Swanson, and er stars of yesteryear got their before the entertainment nch of the industry moved to ifornia.

ut Wilding is not the only Chiofirm operating in an historic.
Kling Studios, busy remodeling
oller rink on West Washington
levard into a studio, recently
ght the old Chaplin studios in
lywood, complete with the propghosts of famous productions
"The Kid," "City Lights," and
rs. All told, there are 51 proers in Chicago, although less
half are significant in terms of
linued operation.

hicago industrial firms are promt among film users. One, Interonal Harvester, helped pioneer field when it inaugurated its ram 'way back in 1911. Swift, our, Inland Steel, Hotpoint, man, and a good many others film consistently, effectively often expensively.

nce film costs \$1,200 per minute reening time in black and white \$1,500 in color, at a very rough ng, it is easy to understand why ts insist upon quality. They it in that famous "Chicago Established 1907

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Transportation

and Traffic



HE Illinois Intrastate Motor Carrier Rate and Tariff Bureau, c. has petitioned the Illinois Comerce Commission to prescribe minum rates and charges for for-hire otor carrier transportation in Illiis. The petition attacks the dual eration of common and contract otor carriers as well as the rates, riffs and schedules of the carriers. he minimum rate request would clude movements of household ods, bulk commodities, farm-toarket products, grain, feed and ferizer. The Illinois Territory Indusial Traffic League, in its reply to e petition, pointed out that many these highway carriers operate terstate as well as intrastate and at there is no minimum rate order effect on interstate traffic. "It is fficult to conceive," the League id, "that conditions among the rriers could be going smoothly terstate while presenting such dire nergency intrastate as is alleged." answer to the motor group's alletion that state revenues will suffer cause of fewer purchases of license ates unless a minimum rate order adopted, the league said that "it ould be at least as sound to sugest that such state revenues will ffer most heavily if a minimum te order is adopted for in that ent the motor carrier traffic will e diverted to other forms of transortation on which the rates are not eld up in the manner that petioner seeks for motor carriers." The ague concludes that a general instigation with a blanket minimum te order is "fundamentally conary to the public interest because e effect of such a proceeding is to stroy competition and deny to anagement its right to exercise itiative and managerial discretion operate its own business."

Mixed Carload Rule to Mounin Pacific Territory Effective Au-

gust 2: New mixed carload rules for movements from, to and within Mountain Pacific territory will become effective August 2, 1954, on not less than 15 days' notice. The new rules will be published in compliance with the report of the Interstate Commerce Commission in No. 30994 in which the railroads were ordered to establish the modified Classification Rule 10 (mixed carload rule) within Mountain Pacific territory, and between that territory, on the one hand, and Western Trunk Line and Southwestern territories, on the other. On movements between Mountain Pacific territory, on the one hand, and Official and Southern territories, on the other, the commission ordered establishment of the so-called streamlined Rule 10 on eastbound traffic and the modified rule on westbound traffic. The difference between the streamlined and modified rule is that under the latter, so-called "all freight" rates cannot be used in rating a mixed carload shipment. Under both the modified and streamlined Rule 10 the charges on a mixed carload shipments are based on the rate applicable to each article in the shipment and the minimum weight is the highest provided for any article in the shipment. Under the Classification Rule 10, which is presently in effect on movements from, to and within Mountain Pacific territory, the charges on a mixed carload shipment are based on the rate applicable to the highest rated article and the minimum weight is the highest provided for any article in the carload.

• Eastern Railroads Publish Volume L.C.L. Rates: A tariff has been filed with the Interstate Commerce Commission by the eastern railroads naming volume rates on less carload shipments, effective August 1, 1954. The tariff is No. E-178 published



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125 N. Green St. Chicago 7, III. by Agent C. W. Boin, One Park Avenue, New York 16, N. Y. The rates are based on competitive rates maintained by the motor common carriers and will apply on all less carload shipments of 5,000 pounds or more in Official territory. The tariff contains three scales of rates which will apply as follows: (1) Between Central territory, on the one hand, and Trunk Line and New England territories, on the other: (2) Within Central territory; and (3) Within Trunk Line territory and between that territory, on the one hand, and New England territory on the other. The proposed rates will include pick-up and delivery service.

President Appoints Cabinet Committee on Transport Policy: President Eisenhower has established a Cabinet Committee on Transport Policy and Organization with the Secretary of Commerce, Secretary of Defense and Director of the Office of Defense Mobilization as members and the Secretary of Agriculture and the Director of the Bureau of the Budget as ad hoc participating members. In a letter to Secretary of Commerce Sinclair Weeks, who has been designated as chairman of the committee, the President said, "Over the past years, studies have been made and recommendations have been presented regarding government programs affecting particular segments of the transportation industry. Following the recommendations of the original Hoover Commission on Government Organization, considerable progress has been made in the past five years in the centralization within the Department of Commerce of major programs affecting transportation. However, a comprehensive up-todate review of over-all transportation policies and problems is needed as an aid in assuring the over-all consistency of government policies and programs concerning particular branches of the transportation industry. Also, the organization of the federal government to cope with transportation problems should be reviewed." The President's letter continues, "The exploration and formulation of policy and organizational recommendations covering the whole field of transportation require a broad perspective which comprehends the over-all needs of the nation and understands the special problems and capabilities of forms of transportation. To m this need, therefore, I am establ ing a Cabinet Committee on Tra port Policy and Organization wh task will be the presentation recommendations for my considtion." The committee's recommen tions must be submitted to the P ident not later than December 1954.

• Ask I.C.C. to Continue Chic Switching District Rate Order: response to a "show cause" orde group of 36 railroads has asked Interstate Commerce Commiss not to vacate and set aside its or of July 3, 1933 which directed t the rates and charges for intras switching service in the Chic Switching District within the st of Illinois and Indiana be not than the interstate switching r and charges applicable within district. "By virtue of the comsion's orders," the railroads said, interstate and intrastate switch rates have been maintained on same level for the past 20 years the apparent satisfaction of the s pers and receivers of freight, as as the carriers. From time to time order to meet competition or other reasons, the carriers have tioned and received modification the commission's orders with res to specific commodities moving tween certain points within the trict. The orders, therefore, h not prevented adjustments to n the changing needs of shippers carriers." Continuing, the railro stated that they are "unanimous their belief that these orders I prevented and will continue to vent the return of an undesira dual or treble basis of rates wit the district with the attendant crimination resulting from differ charges on two classes of traffic extricably intermingled and carr on in the district under substanti the same conditions."

• Senate Approves Winches Nomination to I.C.C.: The Ser has confirmed the nomination John H. Winchell of Colorado membership on the Interstate C merce Commission, for a term piring December 31, 1960. Com sioner Winchell, who was chairs of the Colorado Public Utili Commission, will succeed for mmissioner James K. Knudson, igned.

il.C.C. Lifts Suspension of iggy Back" Tariffs: The Interstate mmerce Commission has vacated suspension of tariffs published by eastern railroads naming rates transporting freight in highway illers on flat cars. The commission II, however, continue its investigan of the subject, assigned as taket I. & S. 6214, Trailers on Flat rs—Eastern Territory, and product with the hearing scheduled for by 27 in Washington, D. C.

lere, There and Everywhere

(Continued from page 8)

veyors that hold papers together pressure. One carries shipping ors from the third-floor office to king areas; the other hustles bills-ading from traffic men on the rd floor to the first-floor loading k. An average of 200 shipping mos are handled hourly.

Pellet Pavement - The bottlek that has prevented widespread of rubber-asphalt topping for ds appears to have been broken synthetic rubber pellet smaller n a pencil eraser. The pellets, is their developer, the United tes Rubber Company, make every halt plant in the country a potenrubber-road mix plant. Tossed a mixing mill, the unvulcanized lets break down in 60 seconds, eading rubber evenly through the .U.S. Rubber previously pre-ed asphalt and rubber at its igatuck Chemical division plant shipped the hot mixture in inted tank cars or trucks to conction sites. This meant high asportation costs, and the shipg range was limited to a 24-hour . Now only the pellets are ped. From six to 12 pounds are ed to a ton of asphalt, which will r 13 square yards of road with ne-and-a-half inch seepage-proof r.

preading Color — Color televireception is now possible in 35 e cities and by next year 125 TV ons should be equipped for color lasts, according to the Radio poration of America.

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New Products

For Bosses Only

With DuKane Corporation's new Flexifone intercommunicating system, the boss no longer has to sit around and be impatient when he gets a busy signal. He simply presses the "executive priority key" that cuts off the delaying conversation and connects him with the man he wants. DuKane hastens to say that the system includes warning signal flashes on the desk instruments of the interrupted parties and electrical circuiting that makes it impossible for the boss to eavesdrop before he butts in. The company's address is St. Charles, Ill.

Close-Quarter Fork Truck

Yale and Towne Manufacturing Company, Philadelphia, has introduced an electric fork truck designed primarily for operating in close quarters—such as in driving loads right up into highway vans and trailers. Its features include accessibility of the driver's seat from either side, low seat position to keep the driver's head below the 68-inch overall height at all times, and low cowl for better visibility.

Radiant-Tube Furnace

Lindberg Engineering Company, 2450 W. Hubbard St., Chicago 12, says its gas-fired radiant tube atmosphere furnace represents the first large-scale application of radiant tubes to toolroom-size furnaces. The new unit is said to be suited for heat treating virtually all production and tool steels, except high-speed, where it is essential to keep the work free of scale and decarburization. Maximum operating temperature is 1850 degrees Fahrenheit.

Sportsmen's Power Tool Kit

Even an automatic fish scaler is included in the sportsmen's power tool kit made by C-D Products, Inc., 3946 Willow Road, Schiller Park, Ill. In addition to being equipped to do the usual jobs around the house or

cabin, the kit has a round carborundum stone for sharpening hooks an knives, a vise for tying flies an holding hooks, a felt buffing an polishing wheel for shining tackle and a fibre brush for cleaning reel. The AC-DC power unit plugs in light sockets. The company says the power tool has the highest torque any hand tool made. Price is \$19.9

Rollers for Ranges

Designed to retail at \$12 and make cleaning behind the store easier for the housewife is the kitchen range roll-away, a roller devict that can be adjusted to fit under a size of range. It is made by Kitche Range Roll-Away Manufacturin Company, 1034 W. 76th St., Los Ageles 44. If you have a gas range, the company will sell flexible hose and coupling to go with the roll-away.

No-Maintenance Alarm

A fire alarm that requires a maintenance, has no batteries, wire moving parts or springs is the product of Evergard Fire Alarm Corpany of Doylestown, Pa. When subreaks out, the increased temper ture sets off the Evergard whice sounds a loud continuous warning on its air horn for 15 minutes. Kran Products Company, 3502 Elston avenue, Chicago, is western distributed.

Hand Truck

Shop Caddy is the name of it two-wheel hand truck with 50 pounds lifting capacity made by Pr cision Equipment Company of 871 N. Milwaukee Ave., Chicago 4 Lifting height of the hydraulic un is 36 inches. Price is \$139.50, f.o. Chicago.

Ceiling Air Conditioner

Ceiling-suspended air conditions for factory and office use are bein introduced by Union Asbestos an Rubber Company, 332 S. Michiga Ave., Chicago. The space-saving ceiling unit comes in sizes ranging from

ee to seven and a half tons. The ee and five horsepower models 62 inches long, 40 inches wide, 1 28 inches high. The seven and half horsepower model is 72 by by 32 inches. Piping and electriconnections are brought down m the ceiling or can be run over m the wall.

lors' Companion

Boat owners should welcome the Raytheon Manufacturing Compy unit that serves both as a stable radio and marine direction der. Called the GM 114A, the 13-und radio has a knob-like antenna t projects only two inches above case. By listening to the radio I rotating the antenna until it not directly at the radio stations, mariner can obtain a "fix" on his ition at sea. The price is \$149.50, I maker's address is Waltham 54, ss.

ectric Wheel Chair

An electric wheel chair for the erly and handicapped is featured Sears, Roebuck and Company's -and-winter catalog. The Lectracan turn in its own length, pass ough a 30-inch opening and climb rade of 15 per cent. It has two ward speeds—four and five and a f miles an hour — and a reverse ed. Power is supplied by two 12-t batteries capable of three to r hours of continuous operation. e Chicago price is \$479.95. Sears' ess is 925 S. Homan St., Chicago.

nds In Finance and Business

(Continued from page 10)

only about 5 per cent of the firstf sales volume.

Solstering the long-term outlook an expected \$10 billion of toll d and toll bridge bonds, the ns of the New York State Power thority to issue bonds in connect with the development of the St. wrence Seaway, and the accumung need for more school, hospiand water and sewer facilities. or four years there has been a rowing spread between the yields high grade taxable bonds and the ds of tax-exempt municipal is-

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sues, the survey points out. "Something will have to give when this fact becomes better known — and it should be in favor of the "tax-exempts," it comments.

• Home Prices Stable — Prices of new houses generally are the same as last year with somewhat lower prices typical of more expensive homes and the same or slightly higher prices in the medium and lower cost fields, says the United States Savings and Loan League. The market for used houses is reported somewhat weaker than a year ago.

Lower priced homes are described as constituting a larger share of the total volume of new home building than was the case a year ago. Tweethirds of the communities surveyed report a larger number of homes for sale this year.

"Residential construction, while exceeding the one-million-unit-peyear level since 1949, apparently hanot yet met the requirements growing out of postponed construction during the depression plus higher living standards of an expanding population," states the League From another source, Standard Fators Corporation, comes the prediction that the million-a-year rate with hold until 1960 when there will han upsurge due to the formation onew households by the bumper croof babies born in the early 1940.

Silt Threatens Our Dams

(Continued from page 17)

of the underwater topography was obtained through the use of depth sounding equipment similar to that used on naval and commercial vessels.

A specially-equipped boat made many trips across the reservoir, receiving sound waves sent from the boat's "sounder" and bounced back by the reservoir bed. The time it took for the sound to travel from the boat and back indicated the depth of the water.

Underwater photographs were taken to assist in determining the

topography of the reservoir bottom In addition, the Navy used certain as yet undisclosed, new technique of "underwater television."

Some of the engineers' fears were realized when the figures were collected and analyzed. Silt was bein deposited in the reservoir at an annual rate of 105,000 acre-feet a yea. An acre-foot means an area of on acre, one foot thick.

These deposits of 105,000 acre-fe per year actually total 2,210,00 acre-feet in the 20 years that the day has been operating. Since the total storage capacity of Lake Mead 31,000,000 acre-feet, the 2,000,00 acre-feet of silt means that the re ervoir has already lost one-fifteent of its capacity in just 20 years. Re ervoirs and dams of the Hoov Dam type are built to last gener tions and even centuries. It is a sur bet that Hoover Dam at least won be useful during its planned li unless something is done. The day would be useless for all practic purposes when it is half filled wit silt. And, that won't be too lor from now, relatively speaking. Son engineers think that the dam coul become practically useless by the end of this century.

The joint survey found information which will be applicable to doing something about the Hoove Dam and other dams having similar difficulties. So far, no absolute solution to the silting problem has been offered.

Interior Department officials pi

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ome hope on smaller dams which are expected to be built upstream of the large dams and which would atch some of the silt and prevent all from building up behind the big dams downstream.

In the immediate future it may be necessary to build "de-silting" works on some rivers just ahead of the reservoirs similar to those alleady in operation on some irrigation dams and canals in California.

The de-silting basin on Caliornia's Laguna Dam is an example of a local method of reducing the mount of silt carried into an irritation system. A rectangular settling basin 116 feet wide, 800 feet long and 18 feet deep is provided. The vater intended for irrigation approaches the canal head at a velocty as low as one foot per second, which causes the heavier particles of sand and soil to drop to the floor of the basin.

About every three days it is necesary to raise the gates at one end of he basin and flush out these deosits, which are then carried back not the river below the dam.

De-silting Works

In addition to settling basins, there re mechanical de-silting works. One of these works is located at mperial Dam, about five miles bove Laguna Dam. The works here ere designed on the same principle sused in the Laguna basin—that, heavier particles will fall out of ispension if the water is slowed own. Rotating "water plows" churn p the water, slowing it down.

The de-silting basins and mechanal works are effective if the parcles are large enough to drop out tickly, but with large quantities fine material it is often impossible hold the water long enough. In the instances, chemicals like sulfate alumina or ferrous sulfate are ided to coagulate the suspended atter. But even when the chemicals te not harmful to crops, the expose of this method generally akes its large-scale use impractable.

Engineers are now looking to the dy other alternative. That is, not tting the silt get behind the big ms in the first place.

In the closing days of the 1953 sion of Congress, the legislators propriated \$5 million toward a program that eventually may help keep our giant hydroelectric and irrigation dams from becoming as useless as buggy whips to car drivers.

The \$5 million was given to the Department of Agriculture as a start on a far-reaching program of upper watershed soil conservation. With this first appropriation the department will build about 50 small dams on the upper reaches of a number of streams.

The small dams will not only hold back the soil, but prevent floods by checking the water before it becomes uncontrollable. But from the longrange view, holding back soil and silt which is finding its way behind the dams is more important.

Prolonging the usefulness of the dams is important because we are using our non-replaceable energy resources such as oil, gas and coal at extremely rapid rates. Falling water is always with us.

But the water is of little use unless we can store it economically behind dams. And these must have a life at least long enough to repay the enormous cast of building them.

Otherwise, as the engineer said, the dams are no damn good.

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Stop me...If.



Wife: "Do you have a good memory for faces, dear?'

Husband: "Of course I have."

Wife: "That's good, I just dropped your shaving mirror."

Mabel: "Oh, Lucille, I'm sure there's a man following us."

Lucille: "Gosh, what'll we do?"

Mabel: "Let's match for him."

Customs Officer: "Look here, Mister, you told me there was nothing in the suitcase but clothing and I found a bottle of

Accused: "Sure, that's my night cap."

Girl: "I maintain that love-making is just the same as it always was. Boy: "How do you know?"

Girl: "I just read about a Greek maiden who sat and listened to a lyre all evening."

A lady was entertaining the small son of a friend.

"Are you sure you can cut your own

meat, Tommy?" she inquired.
"Oh, yes, thanks," answered the child politely. "I've often had it as tough as this at home."

A tramp had been arrested. Taken to the police station he was told to take a bath.

'What, in water?'

"Yes. You need it. How long has it been

since you had a bath?"
"Well," he said hesitating, "I ain't never been arrested before."

She: "You admit that marriage is a fine school?"

He: "Not for a man."
She: "Why not?"
He: "Because he loses a bachelor's degree without getting a master's.'

Tired after a busy day, a distinguished congressman in Washington handed the menu back to the waiter and said: "Just bring me a good meal."

A good meal was served and the congressman gave the waiter a generous tip.
"Thank yo', suh," the waiter said, "an' if
you' got any friends what can't read you'
jes' send 'em to me."

Sign in restaurant window: "T-bone, 25c. Below in fine print is: "With meat, \$4.00."

Employer to lazy janitor: "Pulaski, I wrote your name with my finger in the dust on my desk this morning,

"Yeah, boss," the janitor replied, "and you spelled it wrong."

Middle age is when you don't care where you go, just so you're home by 9 p.m.

"This is daddy's den," a little boy his playmate. "Does your daddy hav den?"

"No," came the reply, "he just growle around the house.

Fresh from the back country, the you ster at the recruiting officer's desk was ing subjected to routine questioning. Bi day? No, he didn't know when that but — he brightened — he knew how old was, he was 32. The officer was skept How did he know? Maw had told him thow old he was and he had added a

at plowing time ever since.
"Well," queried the officer, "Did you
a year at spring plowing or at fall p

"Dog-gone it," exclaimed the woulsailor, "that explains it. I though I getting old too derned fast!"

The teacher had asked the class to in their opinion, the 11 greatest Americ After a while she stopped at one desk asked:

"Have you finished your list yet, Bob "Not yet, teacher," Bobby replied. can't decide on the quarterback."

Three girls had grown up together, of them married, and thereafter continu annoyed their spinster friend with lac remarks about her unhappy condition She laughed off their comments g naturedly until one day they went a

too far. "Now, tell us truthfully," they twi

her, "have you ever really had a chi

With a withering glance, she retor "Suppose you ask your husbands."



"I'm leaving early tonight to make up for the fact that I'm coming in late tomorrow morning!